Minnesota Pollution Control Agency

National Pollutant Discharge Elimination System/State Disposal System

MN0051250

Permittee: City of Delano

Facility name: Delano Wastewater Treatment Facility

Receiving water: Unnamed Stream - Class 2B, 3C, 4A, 4B, 5, 6 water

City: Delano **County:** Wright

Issuance date: TBD

Expiration date: TBD

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to operate a disposal system at the facility named above in accordance with the requirements of this permit.

The goal of this permit is to reduce pollutant levels in point source discharges and protect water quality in accordance with the U.S. Clean Water Act, Minnesota statutes and rules, and federal laws and regulations.

This permit is effective on the issuance date identified above. This permit expires at midnight on the expiration date identified above.

Signature: ***[Type e-Signature]***

This document has been electronically signed.

Bill Priebe
Supervisor
[Office]
[Division]

for the Minnesota Pollution Control Agency

Submit eDMRs
Submit via the MPCA Online Services Portal at
https://netweb.pca.state.mn.us/private/

Submit other WQ reports to:
Attention: WQ Submittals Center
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Questions on this permit?
For eDMR and other permit reporting issues, contact:
Jennifer Satnik: 651-757-2692

For specific permit requirements please refer to:
Molly Baumann: 651-757-2204

Wastewater Permit Program general questions, contact:
MPCA: 651-282-6143 or 1-800-657-3938.

Table of Contents

Page

1. Permitted facility description

The Delano Wastewater Treatment Facility (Facility) is located at 1002 River St N, Delano, Minnesota 55328, Wright County.

Major components of the Facility include:
1 Fine Screen
1 Grit Removal Unit
1 Flow Equalization (EQ) Tank
2 Activated Sludge Units - sequencing batch reactor, biological phosphorus removal
Postaeration - less than two hours detention
Disinfection - ultraviolet light
Flow Equalization Tank – post EQ tank for SBRs
Gravity Belt Thickener
3 Aerobic Storage Tanks – aerated sludge holding tanks
2 Aerobic Storage Tanks – waste activated sludge holding tanks
14 Reed Beds – four beds at 4,580 square feet and ten beds at 4,900 square feet

The existing Facility consists of a main lift station with a flood overflow pump, Rotomat Fine Screen, vortex grit removal, an emergency pre-EQ tank, two SBRs with biological phosphorus removal, denitrification and full nitrification, a post-equalization tank for the SBRs, ultraviolet disinfection, a gravity belt thickener, 3 aerated sludge holding tanks, 2 waste activated sludge tanks, four reed beds at 4,580 square feet and ten reed beds at 4,900 square feet for biosolids treatment and storage. When full, the reed beds are removed from service for 4-6 months for final dewatering and drying of biosolids. Biosolids are then landfilled or land applied. The biosolids treatment is designed to meet Class B pathogen reduction and vector attraction reduction requirements.

The existing Facility is designed to treat an average wet weather flow (AWWF) of 2.199 million gallons per day (mgd), an average dry weather flow of 1.17 mgd, an average annual design flow of 1.30 mgd, a mass loading of 2,400 pounds per day (lbs/day) of carbonaceous biochemical oxygen demand, 2,610 lbs/day of total suspended solids, and 108 lbs/day of total phosphorus. The Facility has a continuous discharge to an unnamed stream (Class 2B, 3C, 4A, 4B, 5, 6 Water) which leads to the South Fork of the Crow River.

On March 2, 1998, the MPCA approved a facility plan addendum and subsequently issued a permit for a change in the design AWWF of 0.864 mgd and associated mass loadings.

On October 2, 2002, the Permittee submitted a request for a voluntary facility expansion to increase the design AWWF and associated mass loadings. The Permittee proposed a two-part expansion to accommodate a population increase. Part I, which was completed in June 2005, has an AWWDF of 2.199 mgd and Part II (estimated completion in 2025), will result in an AWWDF of 2.953 mgd. The permit review process included a nondegradation review for Part I of the expansion in accordance with Minn. R. 7050.0185. An Environmental Assessment Worksheet (EAW) was prepared and public noticed for Part I and II of the expansion. The Facility completed construction and initiated operation of Part I of the voluntary expansion on June 30, 2005.

The MPCA has evaluated the treatment components of the Facility with regards to the mass limits in the permit. At the time of permit issuance, the Facility is operating at less than the permitted average wet weather flow (AWWF) rate of 2.199 mgd and is demonstrating the capability of meeting the effluent mass limit of 2,430.4 kg/year for total phosphorus. As the Facility approaches its AWWF, it may need infrastructure improvements and/or operational changes to maintain compliance with the mass limits.

In this permit reissuance, the Permittee was assigned a new total phosphorus effluent limit of 0.53 mg/L, calendar month average, June – Sept. The existing Facility is not designed to achieve compliance with this new total phosphorus limit and as a result, the permit includes a compliance related construction schedule (5.13.35 – 5.13.51) for the Permittee to complete the operational and facility modifications necessary to achieve compliance with the new total phosphorus effluent limit as soon as possible, but no later than June 30, 2021.

In accordance with MPCA rules regarding nondegradation for all waters that are not Outstanding Resource Value Waters (ORVW), nondegradation review is required for any new or expanded significant discharge (Minn. R. 7050.0185). A significant discharge is: (1) a new discharge (not in existence before January 1, 1988) that is greater than 200,000 gallons per day to any water other than a Class 7 water or; (2) an expanded discharge that expands by greater than 200,000 gallons per day that discharges to any water other than a Class 7 water or; (3) a new or expanded discharge containing any toxic pollutant at a mass loading rate likely to increase the concentration of the toxicant in the receiving water by greater than one percent over the baseline quality. The flow rate used to determine significance is the design average wet weather flow. The January 1, 1988, design average wet weather flow for this facility is 0.601 mgd.

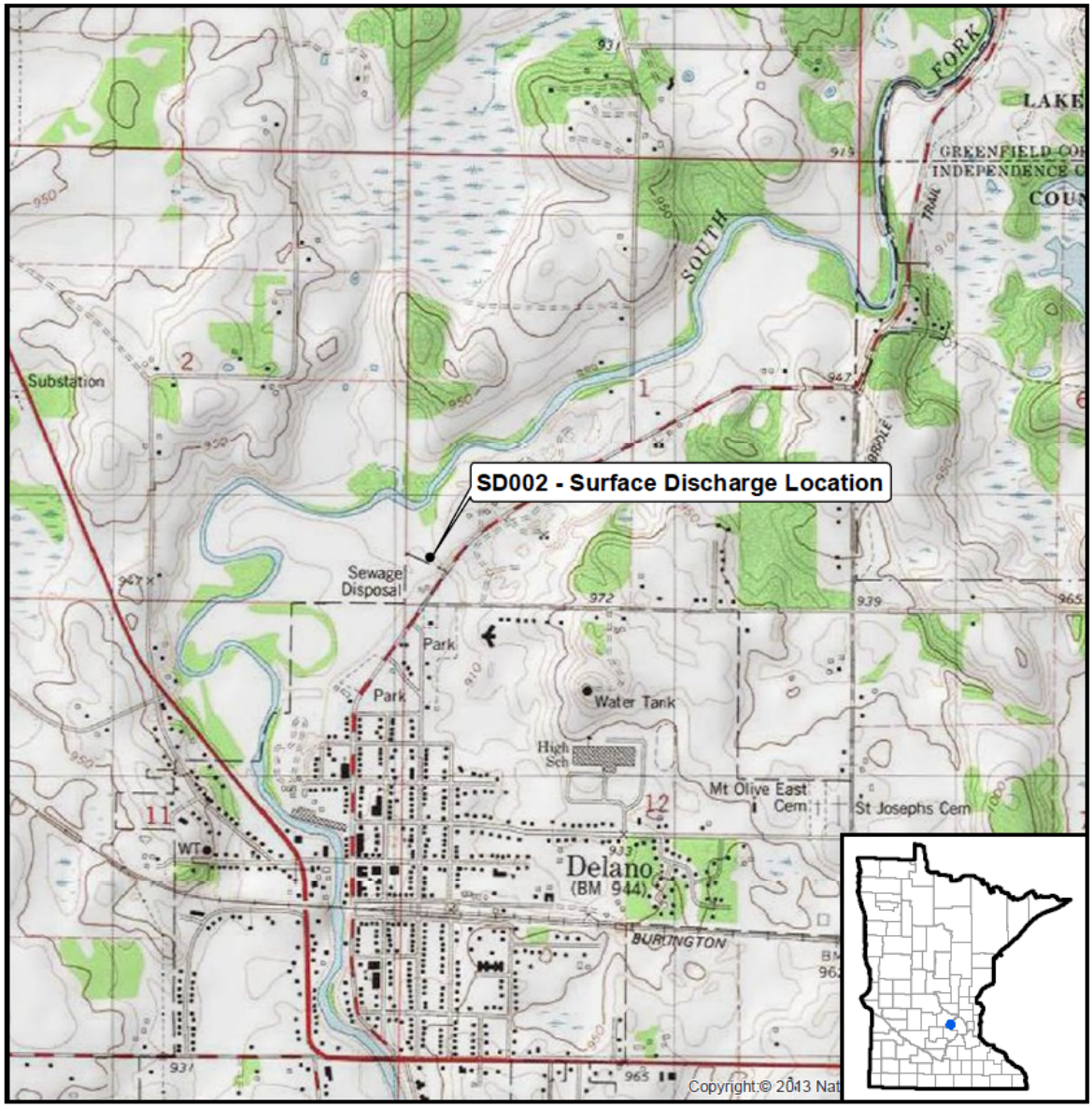
This Permit also complies with Minn. R. 7053.0275 regarding anti-backsliding.

Any point source discharger of sewage, industrial, or other wastes for which a NPDES permit has been issued by the MPCA that contains effluent limits more stringent than those that would be established by Minn. R. 7053.0215 to 7053.0265 shall continue to meet the effluent limits established by the permit, unless the permittee establishes that less stringent effluent limits are allowable pursuant to federal law, under section 402(o) of the Clean Water Act, United States Code, title 33, section 1342.]

2. Location map of permitted facility

Topographic Map of Permitted Facility

MN0051250: Delano Wastewater Treatment Facility
T118N, R25W, Section 1
Franklin Township, Wright County, Minnesota

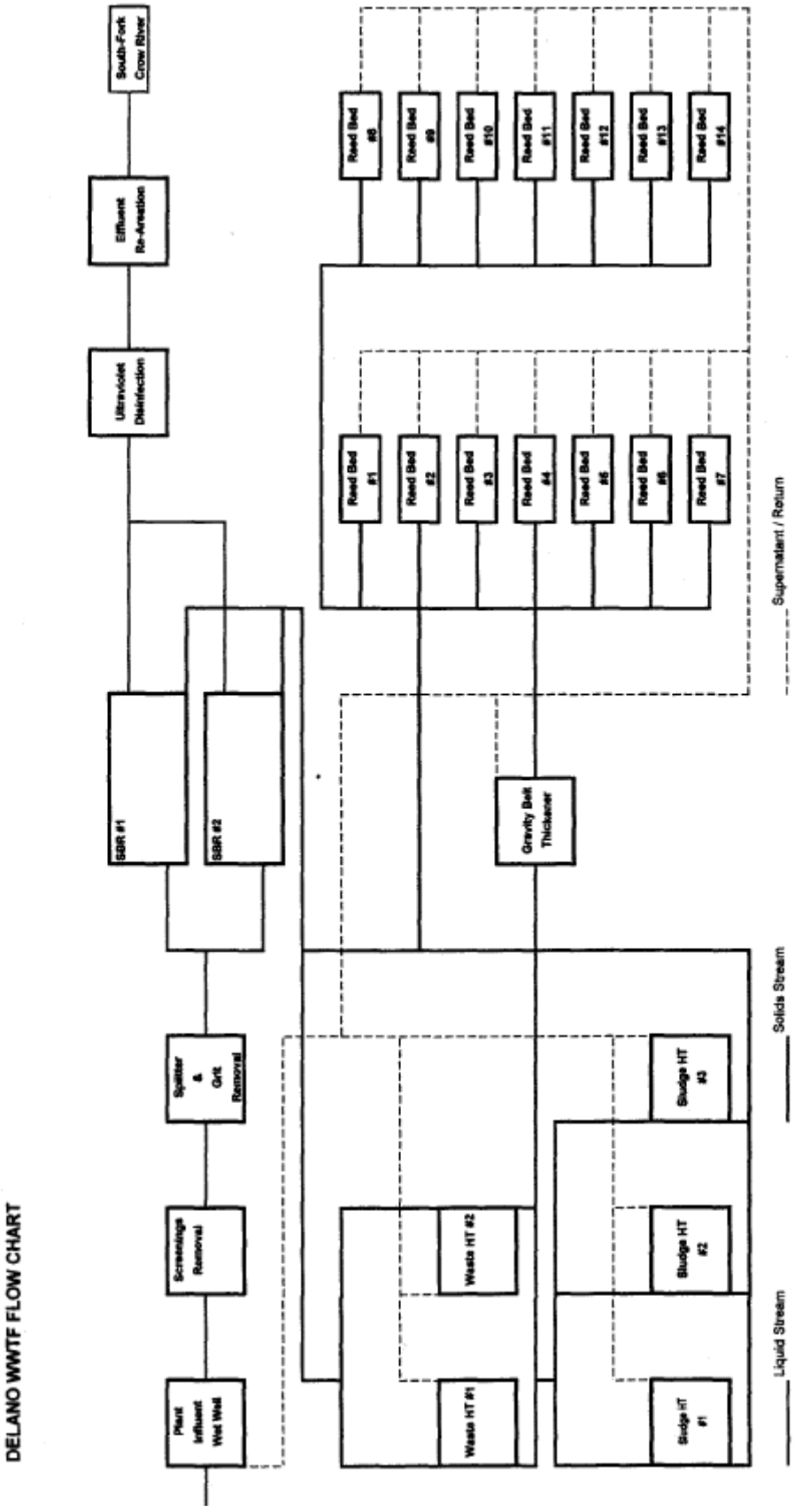


Map produced by: MPCA Staff, 5/13/2013
Source: USGS Quad, Delano WWTF
Scale: 1:20,000

0 0.2 0.4 0.8 Miles

N

3. Flow diagram



4. Summary of stations and station locations

Station	Type of station	Local name	PLS location
SD 002	Effluent To Surface Water	001 Total Facility Discharge	T118N, R25W, Section 1, SW 1/4
SW 002	Stream/River/Ditch, Downstream	Crow River USGS Gauging Station #05280000	T119N, R24W, Section 29, NE 1/4
SW 003	Stream/River/Ditch, Downstream	Mn Highway 101 Bridge	T120N, R23W, Section 2, SE 1/4
WS 001	Influent Waste Stream	Influent waste stream	T118N, R25W, Section 1, SW 1/4

5. Permit requirements

SD 002	Effluent To Surface Water	
		Surface Discharge: Class A Major Facility Effluent Requirements
	5.1.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.3	Samples and measurements for Station SD002 shall be taken at a point representative of the total effluent discharge to surface waters. [Minn. R. 7001.0150, Subp. 2(B)]
	5.1.4	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]
		Priority Pollutant Requirements
	5.2.5	The Permittee shall monitor the effluent three times in the life of the permit for the following specified priority pollutants. Sampling events shall not be less than one year apart. Monitoring shall be for the organic priority pollutants identified under the volatile, acid, base/neutral, and pesticide fractions using EPA methods 624, 625 and 608 (40 CFR Part 136, October 25, 1984) as listed in Table II of 40 CFR Part 122, Appendix D or any updates to those methods. The following priority pollutant total metals shall also be monitored using either EPA method 200.8 or their corresponding graphite furnace method found in Table IB of 40 CFR Part 136 or any updates to those methods: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc. In addition, the Permittee shall monitor for Total Cyanide (EPA method 335), Total Phenolic Compounds (EPA method 420), and Hardness (total as CaCO3) (EPA method 130). Total Mercury shall be monitored by EPA method 1631 or any update to this method, if not already required by the permit. [Minn. R. 7001]
	5.2.6	The Permittee shall submit the first priority pollutant monitoring report : Due 1095 calendar days before Permit Expiration Date, 1095 days = 3 years. [Minn. R. 7001]
	5.2.7	The Permittee shall submit the second priority pollutant monitoring report : Due 730 calendar days before Permit Expiration Date, 730 days = 2 years. [Minn. R. 7001]
	5.2.8	The Permittee shall submit the third priority pollutant monitoring report : Due 365 calendar days before Permit Expiration Date, 365 days = 1 year. [Minn. R. 7001]
		Chronic Toxicity Requirements
	5.3.9	This permit does not include a chronic whole effluent toxicity limit; however the facility has a whole effluent toxicity testing monitoring requirement and is required to conduct chronic toxicity tests for Surface Discharge Station SD002. Results of chronic toxicity tests will be evaluated against a monitoring threshold value of 1.66 TUc. [Minn. R. 7001]
	5.3.10	The Permittee shall submit annual chronic toxicity test battery results, the first test is due 6 months after permit issuance and annually thereafter. submit annual chronic toxicity test battery results : Due 180 calendar days after Permit Issuance Date annually. [Minn. R. 7001]
	5.3.11	Any test that exceeds 1.66 TUc shall be re-tested according to the Positive Toxicity Results requirement(s) that follow to determine if toxicity is still present above 1.66

		TUc (RWC<60). [Minn. R. 7001]
	5.3.12	Species and Procedural Requirements. [Minn. R. 7001]
	5.3.13	Any test that is begun with an effluent sample that exceeds a total ammonia concentration of 5 mg/l may use the carbon dioxide-controlled atmosphere technique to control pH drift. [Minn. R. 7001]
	5.3.14	Test organisms for each test battery shall include the fathead minnow (Pimephales promelas)-Method 1000.0 and Ceriodaphnia dubia-Method 1002.0. [Minn. R. 7001]
	5.3.15	Static renewal chronic serial dilution tests of the effluent shall consist of a control, 12, 25, 50, 75 and 100% effluent. [Minn. R. 7001]
	5.3.16	All effluent samples shall be flow proportioned 24-hour composite samples. Test solutions shall be renewed daily. Testing of the effluent shall begin within 36 hours of sample collection. Receiving water collected outside of the influence of discharge shall be used for dilution and controls. Chronic toxicity tests shall be conducted in accordance with procedures outlined in EPA-821-R-02-013 "Short-term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" - Fourth Edition (Chronic Manual) and any revisions to the Manual. [Minn. R. 7001]
	5.3.17	Any other circumstances not addressed in the previous requirements or that require deviation from that specified in the previous requirements shall first be approved by the MPCA. [Minn. R. 7001]
	5.3.18	Quality Control and Report Submittals. [Minn. R. 7001]
	5.3.19	Any test that does not meet quality control measures, or results which the Permittee believes reflect an artifact of testing shall be repeated within two (2) weeks. These reports shall contain information consistent with the report preparation section of the Chronic Manual. The MPCA shall make the final determination regarding test validity. [Minn. R. 7001]
	5.3.20	Positive Toxicity Result for WET. [Minn. R. 7001]
	5.3.21	Should a test exceed 1.66 TUc for whole effluent toxicity based on results from the most sensitive test species, the Permittee shall conduct two repeat test batteries on all species. The repeat tests are to be completed within forty-five (45) days after completion of the positive test. These tests will be used to determine if toxicity exceeding 1.66 TUc remains present for any test species. For both retests, if no toxicity is present above 1.66 TUc for any test species, the Permittee shall return to the test frequency specified by the permit. If either of the repeat test batteries indicate toxicity above 1.66 TUc for any test species, the Permittee shall submit for MPCA review a plan for conducting a Toxicity Reduction Evaluation (TRE), including the Facility Performance Review (to be submitted to the MPCA WQ Submittals Center within 60 days after toxicity discovery date) and, at a minimum, provide quarterly reports starting from the date of TRE submittal, regarding progress towards the identity, source, and any plans for the removal of the toxicity. The TRE shall be consistent with EPA guidance or subsequent procedures approved by the MPCA in attempting to identify and remove the source of the toxicity. Routinely scheduled chronic toxicity test batteries required in this permit section shall be suspended for the duration of the TRE. At the conclusion of the TRE process, the Permittee must submit a request to the MPCA to discontinue the TRE. The MPCA shall review the request and decide whether or not the TRE will be discontinued. If the MPCA discontinues a TRE, the MPCA shall set conditions to be met by the Permittee based on the TRE results. [Minn. R. 7001]
	5.3.22	Following successful completion of the TRE the Permittee shall conduct biannual testing for the next five year permit cycle. Amendments to the initial TRE shall be approved by MPCA staff and the schedules identified therein. [Minn. R. 7001]
	5.3.23	WET Data and Test Acceptability Criteria (TAC) Submittal. [Minn. R. 7001]
	5.3.24	All WET test data and TAC must be submitted to the MPCA by the dates required by this section of the permit using both the Minnesota Pollution Control Agency

		Ceriodaphnia dubia Chronic Toxicity Test Report and the Minnesota Pollution Control Agency Fathead Minnow Chronic Toxicity Test Report and associated instruction forms. Data not submitted on the correct form(s), or submitted incomplete, will be returned to the permittee and deemed incomplete until adequately submitted on the designated form (identified above). These are legal forms and must be signed and dated by the Permittee. Data should be submitted to: MPCA Attn: WQ Submittals Center 520 Lafayette Road North St. Paul, Minnesota 55155-4194. [Minn. R. 7001]
	5.3.25	Permit Re-opening for WET. [Minn. R. 7001]
	5.3.26	Based on the results of the testing, the permit may be modified to include additional toxicity testing and a whole effluent toxicity limit. [Minn. R. 7001]
	5.3.27	Whole Effluent Toxicity Requirement Definitions. [Minn. R. 7001]
	5.3.28	"Chronic Whole Effluent Toxicity (WET) Test is a static renewal test conducted on an exponentially diluted series of effluent. The purpose is to calculate appropriate biological effect endpoints (NOEC or IC25), specified in the referenced chronic manual. A statistical effect level less than the Receiving Water Concentration (RWC) constitutes a positive test for chronic toxicity. [Minn. R. 7001]
	5.3.29	"Chronic toxic unit (TUc)" is the reciprocal of the effluent dilution that causes no unacceptable effect on the test organisms by the end of the chronic exposure period. For example, a TUc equals [7Q10flow (mgd) + effluent average dry weather flow (mgd)]/[effluent average dry weather flow (mgd)]. [Minn. R. 7001]
	5.3.30	"Test" refers to an individual species. [Minn. R. 7001]
	5.3.31	"Test Battery" consists of WET testing of all test species for the specified test. For chronic WET testing, all test species includes fathead minnows and Ceriodaphnia Dubia. [Minn. R. 7001]
		Facility Specific Requirements
	5.4.32	Salty Discharge Monitoring Requirements Industrial and municipal facilities that have a stream to effluent dilution ratio of less than 5:1 or that have salty waste streams from concentrated treatment technologies (e.g. reverse osmosis, ion exchange, membrane filtration, cooling tower blowdown, etc.) or that have food processing industries using density based (saline) sorting processes are required to complete the analyses for the following salty discharge parameters: chloride, calcium and magnesium hardness as CaCO3, specific conductance, total dissolved salts (solids), sulfates as SO4, bicarbonates (HCO3), sodium, calcium, magnesium, and potassium. These analyses are required to be sampled once per month from the effluent waste stream. If salty discharge monitoring results indicate a reasonable potential for any of the parameters to exceed water quality standards, the Permittee will be required to submit an application for permit modification. If necessary, a compliance schedule will be added to the permit to ensure progress towards meeting the water quality standards. Excluding total chloride and total dissolved solids, the Permittee may request a reduction in monitoring for the salty discharge parameters if after a minimum of two years of data collection the monitoring data does not indicate a reasonable potential to exceed a water quality standard. [Minn. R. 7001]
	5.4.33	Parameters with a monitoring frequency of once per quarter and an effective period of March, June, September, December may be taken at any time during the calendar

		quarter but must be reported on the designated DMR. (eg. Samples taken during the first calendar quarter of January through March must be reported on the March DMR.). [Minn. R. 7001]
	5.4.34	Variability of Operation. [Minn. R. 7001]
	5.4.35	Per the Permittee's request under Minn. Stat. Section 115 and/or Minn. R. 7053, secondary and tertiary limits and monitoring apply to this discharge. In this permit and in the Permittee's eDMRs, variability of operation is expressed in secondary and tertiary limits and monitoring requirements. The Permittee is authorized to operate the wastewater treatment facility in accordance with the variability of operation option. Minn. R. 7053.0235 "Advanced Wastewater Treatment Requirements" allows advanced wastewater treatment facilities to vary their level of treatment between tertiary and secondary, provided the facility is in compliance with water quality standards and all other requirements of the MPCA and the U.S. Environmental Protection Agency. [Minn. R. 7001]
	5.4.36	The Permittee is eligible to exercise the variability of operation option except under any one of the following conditions: 1. The receiving water streamflow (based on the reported streamflow of the South Fork of the Crow River at Rockford) is less than the seasonal "cutoff" value; 2. The receiving water monitoring indicates that the dissolved oxygen level is less than the 6.0 mg/L limit; or 3. The receiving water monitoring indicates the un-ionized ammonia-N concentration exceeds the limit of 0.04 mg/L. [Minn. R. 7001]
	5.4.37	Definitions. [Minn. R. 7001]
	5.4.38	Variability of Operation allows for the use of secondary treatment limits in lieu of tertiary limits during favorable, high-dilution receiving water quality conditions as evidenced by monitoring of the Crow River. [Minn. R. 7001]
	5.4.39	"Cutoff" Values refer to the Crow River flow in cubic feet per second (cfs) as monitored at the Crow River, Rockford Gauging Station (SW002) and is the trigger for reverting to more stringent effluent limitations under the variability of operation option. The "cutoff" values are dependent upon the time of year. [Minn. R. 7001]
	5.4.40	During the winter, ice is a common interference with "real time" streamflow measurements. During such periods use one-half of the mean November streamflow measurement as an estimate of the streamflow during ice conditions. [Minn. R. 7001]
	5.4.41	"Cutoff" Values: The flow at USGS Streamflow Gauge at Rockford must be greater than the following values in order to utilize the variability of operations option. June through September: 130 cfs October through November: 130 cfs December through March: 160 cfs April through May: 150 cfs. [Minn. R. 7001]
		Phosphorus Limit Requirements [Minn. R. 7001]
		The permit includes a final monthly total phosphorous WQBEL of 0.53 mg/L, June through September, for SD002. The WQBEL is based off of a long-term average wasteload allocation of 0.25 mg/L. The long-term average wasteload allocation of 0.53 mg/L is based on achieving eutrophication standards in the South Fork of the Crow River Watershed. The MPCA projects that the Delano WWTF will have to average 0.25 mg/L as a long-term average to comply with the 0.53 mg/L monthly average limit. If it is found that the long-term average of 0.25 mg/L is not achieved with the assigned 0.53 mg/L day monthly average effluent limit, the effluent limit will be adjusted down

		to ensure that the long-term average wasteload allocation of 0.25 mg/L is achieved. [Minn. R. 7001]
SW 002	**Stream/River/Ditch, Downstream**	
		Surface Water Requirements
	5.5.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.5.2	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]
		Variability of Operation
	5.6.3	Special Requirements Surface water monitoring is only required when the variability of operations option is being utilized. [Minn. Stat. ch. 115]
	5.6.4	Discharge Monitoring Reports When sampling based on use of variability of operations, indicate on the monthly DMR "USING VARIABILITY OF OPERATION." When operating under tertiary limits, check "No Flow" on the DMR's. Annual Report In addition to the monthly DMR forms, the Permittee shall provide to the MPCA two copies of an Annual Receiving Water Monitoring Report. The first copy shall be submitted with the December DMR and the second shall be submitted by December 31 under a separate cover to: EAO Division, Water Quality Standards Unit. The annual report shall include all raw monitoring data results, including sampling locations, dates and times for surface water monitoring at Station SW003. The annual reports shall also include daily stream flows at Station SW002 for the months of April through November, mean flow for the months of December through March, and the wastewater treatment facility's discharge for the calendar year. An annual report is NOT required if during that year the variability of operation option was NOT utilized. The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for these stations. If flow conditions are such that no sample could be acquired, the Permittee shall check the "No Flow" box and note the conditions on the DMR. [Minn. R. 7001]
	5.6.5	Station SW002 - Crow River USGS Gauging Station #05280000 The receiving water "cutoff" flow data points for SW002 shall be from the U.S. Geological Survey's continuous flow recording station on the Crow River at Rockford, USGS Gauging Station #05280000. Current or "real time" flow is accessible online at the following USGS website: http://water.usgs.gov/realtime.html. Access the website and select "Minnesota" on the national map that appears on the

		front page, and then select the "Statewide Streamflow Table" link. From the list of stations, scroll down to and select "Station #05280000 at Rockford" to view the "real time" flow. [Minn. R. 7001]
SW 003	**Stream/River/Ditch, Downstream**	
		Surface Water Requirements
	5.7.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.7.2	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]
		Variability of Operation
	5.8.3	Special Requirements Surface water monitoring is only required when the variability of operations option is being utilized. [Minn. Stat. ch. 115]
	5.8.4	Station SW003 - MN Highway 101 Bridge Downstream monitoring shall be taken in the Crow River at the Minnesota Highway 101 bridge near the confluence with the Mississippi River. This bridge is located in Sec. 2, T120N, R23W, approximately two miles north of the city of Rogers corporate boundary in Hassan Township. Samples shall be taken at mid-stream, mid-depth. Record location, date, time and results for each sample on the customized supplemental Discharge Monitoring Report form. Measurement of DO and collection of samples for analysis shall be done at regular intervals rather than on consecutive days. The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If flow conditions are such that no sample could be acquired, the Permittee shall check the "No Flow" box and note the conditions on the Discharge Monitoring Report (DMR). [Minn. R. 7001]
WS 001	**Influent Waste**	
		Waste Stream: Class A Major Facility Influent Requirements
	5.9.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
	5.9.2	Sampling Location. [Minn. R. 7001.0150, Subp. 2(B)]
	5.9.3	Samples for Station WS001 shall be taken at a point representative of total influent flow to the system. [Minn. R. 7001.0150, Subp. 2(B)]
	5.9.4	The Permittee shall submit monitoring results in accordance with the limits and monitoring requirements for this station. If conditions are such that no sample can be acquired, the Permittee shall report "No Flow" or "No Discharge" on Discharge Monitoring Report (DMR) and shall add a Comments attachment to the DMR detailing why the sample was not collected. [Minn. R. 7001.0150, Subp. 2(B)]
MN0051250	**Delano WWTP**	
		Surface Discharge Station General Requirements
	5.10.1	Analysis Requirements. [Minn. R. 7001]
	5.10.2	Dissolved Oxygen, pH, Specific Conductance, and Temperature analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7001]

	5.10.3	Representative Samples. [Minn. R. 7001]
	5.10.4	Samples and measurements required by this permit shall be representative of the monitored activity. [Minn. R. 7001]
	5.10.5	Surface Discharge Prohibitions. [Minn. R. 7001]
	5.10.6	Floating solids or visible foam shall not be discharged in other than trace amounts. [Minn. R. 7001]
	5.10.7	Oil or other substances shall not be discharged in amounts that create a visible color film. [Minn. R. 7001]
	5.10.8	The Permittee shall install and maintain outlet protection measures at the discharge stations to prevent erosion. [Minn. R. 7001]
	5.10.9	Winter Sampling Conditions. [Minn. R. 7001]
	5.10.10	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month, the Permittee shall check the "No Discharge" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
	5.10.11	Phosphorus Limits and Monitoring Requirements. [Minn. R. 7001]
	5.10.12	Phosphorus Calculation Definitions. [Minn. R. 7001]
	5.10.13	"12-Month Moving Average" is a rolling average. To calculate, add all of the monthly average values during the last 12 months and divide by 12. [Minn. R. 7001]
	5.10.14	"12-Month Moving Total" is a rolling total. To calculate, for each month multiply the total volume of effluent flow (MG) by the monthly average concentration and by a 3.785 conversion factor to get kg/month. Then add all of the monthly values (kg/mo) during the last twelve months, starting with the monthly total for the month of the current reporting period. [Minn. R. 7001]
	5.10.15	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
	5.10.16	Permittees are required to sample for TSS (grab sample) at the same time that Total/Dissolved Mercury samples are taken. Total Mercury, Dissolved Mercury, and TSS (grab sample) samples shall be collected via grab samples. All results shall be recorded on DMRs. [Minn. R. 7001]
	5.10.17	Total and Dissolved Mercury samples shall be analyzed using the most current versions of EPA Method 1631 with clean techniques method 1669. Should another mercury analytical method that has a reportable quantitation level of <0.5 ng/L that allows for low-level sample characterization be approved by the EPA and certified by an MPCA recognized accreditation body, the method may be used in place of 1631/1669. [Minn. R. 7001]
	5.10.18	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
	5.10.19	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
		Surface Water Station General Requirements
	5.11.20	Analysis Requirements. [Minn. R. 7001]
	5.11.21	Dissolved Oxygen, pH, Specific Conductance, and Temperature analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7001]
	5.11.22	Sampling Protocol. [Minn. R. 7001]
	5.11.23	All instruments used for field measurements shall be maintained and calibrated to insure accuracy of measurements. [Minn. R. 7001]
	5.11.24	Sample water shall be preserved according to lab instructions and delivered to a certified lab within the maximum holding times. [Minn. R. 7001]
	5.11.25	Winter Sampling Conditions. [Minn. R. 7001]
	5.11.26	The Permittee shall sample flows at the designated monitoring stations including when this requires removing ice to sample the water. If the station is completely frozen throughout a designated sampling month, the Permittee shall check the "No

		Flow" box on the Discharge Monitoring Report (DMR) and note the ice conditions in Comments on the DMR. [Minn. R. 7001]
		Waste Stream Station General Requirements
	5.12.27	Analysis Requirements. [Minn. R. 7001]
	5.12.28	Dissolved Oxygen, pH, Specific Conductance, and Temperature analyses shall be conducted within 15 minutes of sample collection. [Minn. R. 7001]
	5.12.29	Representative Samples. [Minn. R. 7001]
	5.12.30	Grab and composite samples shall be collected at a point representative of total influent flow to the system. [Minn. R. 7001]
	5.12.31	Mercury Limits and Monitoring Requirements. [Minn. R. 7001]
	5.12.32	Total Mercury samples shall be grab samples and shall be analyzed using EPA Method 1631 with clean techniques method 1669 and any revisions to those methods. Should another mercury analytical method that has a reportable quantitation level that allows for low-level sample characterization be approved by the EPA and certified by the Minnesota Department of Health, the Permittee is authorized to use that method. [Minn. R. 7001]
	5.12.33	Nitrogen Limits and Monitoring Requirements. [Minn. R. 7001]
	5.12.34	"Total Nitrogen" is to be reported as the summation of the Total Kjeldahl Nitrogen and Total Nitrite plus Nitrate Nitrogen values. [Minn. R. 7001]
		Compliance Construction Schedule
	5.13.35	Definitions. [Minn. R. 7001]
	5.13.36	"Initiation of operation" means the date that MPCA determines all components of the wastewater treatment system are complete and functioning and the project begins operating for the purposes for which it was planned, designed, and built. [State Definitions]
	5.13.37	"Completion of construction" means all the construction is complete except for minor weather-related components and conforms to the approved plans and specifications and change orders. [State Definitions]
	5.13.38	"Notice to proceed" means a written notice given by the Permittee to the contractor that affixes the contract effective date and the date that the contractor begins performing the work specified in the contract documents. [State Definitions]
	5.13.39	Schedule. [Minn. R. 7001] The Delano Wastewater Treatment Facility's (Facility) discharge has been shown to contribute to elevated total phosphorus and chlorophyll-a (Chl-a) concentrations in the South Fork Crow River. The existing phosphorus limits assigned to the Facility (2430.4 kg/yr, 12 month moving total & 1.0 mg/L, 12 month moving average) were assigned to protect for the nutrient impairment in Lake Pepin and in accordance with Minn. R. Ch. 7053.0255 but are not sufficient to protect waters within the SFCRW. As a result, the Facility was assigned a new total phosphorus water quality based effluent limit (WQBEL) of 0.53 mg/L, calendar month average, June – September. This compliance related construction schedule requires the permittee to complete the Facility modifications necessary to achieve compliance with the new limit as soon as possible, but no later than June 30, 2021. The permit (as described in the limits and monitoring section of the permit) includes Phase 1 (interim) and Phase 2 (final) phosphorus limits as outlined below: Phase 1 (interim) requirements: 2430.4 kg/yr, 12-month moving total, Jan - Dec 1.0 mg/L, 12-month moving average, Jan - Dec

		Phase 2 (final) requirements (effective as soon as possible, but no later than June 30, 2021): 2430.4 kg/yr, 12-month moving total, Jan - Dec 1.0 mg/L, 12-month moving average, Jan - Dec 0.53 mg/L, calendar month average, June - September
	5.13.40	The Permittee shall submit a 2016 Pilot Study Plan for MPCA review by May 23, 2016. submit a plan : Due 05/23/2016. [Minn. R. 7001]
	5.13.41	The Permittee shall submit results of the 2016 Pilot Study for MPCA review by December 31, 2016. submit report : Due 12/31/2016. [Minn. R. 7001]
	5.13.42	The Permittee shall submit an updated 2017 Pilot Study Plan for MPCA review by May 30, 2017. submit an updated plan : Due 05/30/2017. [Minn. R. 7001]
	5.13.43	The Permittee shall submit results of the 2017 Pilot Study for MPCA review by December 31, 2017. submit report : Due 12/31/2017. [Minn. R. 7001]
	5.13.44	The Permittee shall submit a facility plan for MPCA review by March 1, 2018. submit a facility plan : Due 03/31/2018. [Minn. R. 7001]
	5.13.45	The Permittee shall submit plans and specifications regarding needed facility modifications for MPCA review and approval by March 1, 2019. submit plans and specifications : Due 03/01/2019. [Minn. R. 7001]
	5.13.46	The Permittee shall submit a copy of the Notice to Proceed by December 31, 2019. submit notice to proceed : Due 12/31/2019. [Minn. R. 7001]
	5.13.47	The Permittee shall submit a notice of completion of construction by December 31, 2020. submit notice of completion of construction : Due 12/31/2020. [Minn. R. 7001]
	5.13.48	The Permittee shall notify the MPCA in writing of initiation of operation 14 days before the actual initiation of operation date. [Minn. R. 7001]
	5.13.49	The Permittee shall initiate operation of the upgraded facility by March 31, 2021. initiate operation : Due 03/31/2021. [Minn. R. 7001]
	5.13.50	The Permittee shall attain compliance with the Phase 2 (final) total phosphorus effluent limit of 0.53 mg/L as soon as possible, but no later than June 30, 2021, which is 90 days after initiation of operation. [Minn. R. 7001]
	5.13.51	The Permittee shall send final technical documents to the MCPA by one year after initiation of operation. a. An MPCA-approved certification form that is signed by a professional engineer registered in the state of Minnesota stating that the project meets the performance standards. b. A revised operation and maintenance manual or a maintenance plan; or a certificate of completion of an operation and maintenance manual on a form prescribed by the MPCA. At a minimum, this plan must include a detailed discussion of operation and controls, maintenance, sampling and analysis, problem mitigation, VOC management, personnel records and reporting, and safety. This plan must be maintained and updated regularly and made available to the MPCA staff upon request. c. A system effectiveness evaluation that summarizes the effectiveness of the treatment facility (including any applicable groundwater monitoring system) as detailed in the plan and specifications approval letter or through communication with the MPCA staff. d. One copy of the as-built plans and specifications on microfiche. Full size plan sheets (24 inches x 36 inches or 22 inches x 34 inches) must be provided at 24X reduction and mounted in a white aperture card. Reduced size plan sheets (11 inches x 17 inches) must be provided at 10X reduction. The specifications must be provided at 25X reduction in five-channel, white, 6 x 4 microfilm jackets. Documents must be filmed on negative silver film. [Minn. R. 7001]

		Mercury Minimization Plan
	5.14.52	The Permittee is required to complete and submit a Mercury Pollutant Minimization Plan (MMP) to the MPCA as detailed in this section. If the Permittee has previously submitted a MMP, it shall update its MMP and submit the updated MMP to the MPCA. The purpose of the MMP is to evaluate collection and treatment systems to determine possible sources of mercury as well as potential mercury reduction options. Guidelines for developing a MMP are detailed in this section. [Minn. R. 7001]
	5.14.53	The specific mercury monitoring requirements are detailed in the limits and monitoring section of this permit. Information gained through the MMP process can be used to reduce mercury concentrations. As part of its mercury control strategy, the Permittee should consider selecting activities based on the potential of those activities to reduce mercury loadings to the wastewater treatment facility. [Minn. R. 7001]
	5.14.54	The Permittee shall submit a mercury pollutant minimization plan : Due by two years after permit issuance. [Minn. R. 7001]
	5.14.55	At a minimum, the MMP shall include the following: a. A summary of mercury influent and effluent concentrations and biosolids monitoring data using the most recent five years of monitoring data, if available. b. Identification of existing and potential sources of mercury concentrations and/or loading to the facility. As appropriate for your facility, you should consider residential, institutional, municipal, and commercial sources (such as dental clinics, hospitals, medical clinics, nursing homes, schools, laundries, and industries with potential for mercury contributions). You should also consider other influent mercury sources, such as stormwater inputs, ground water (inflow & infiltration) inputs, lift station components, and waste streams or sewer tributaries to the wastewater treatment facility. c. An evaluation of past and present WWTF operations to determine those operating procedures that maximize mercury removal. d. A summary of any mercury reduction activities implemented during the last five years. e. A plan to implement mercury management and reduction measures during the next five years. [Minn. R. 7001]
		Mechanical System
	5.15.56	Bypass Structures. [Minn. R. 7001]
	5.15.57	All structures capable of bypassing the treatment system shall be manually controlled and kept locked at all times. [Minn. R. 7001.0030]
	5.15.58	Sanitary Sewer Extension Permit. [Minn. R. 7001]
	5.15.59	The Permittee may be required to obtain a Sanitary Sewer Extension Permit from the MPCA for any addition, extension or replacement to the sanitary sewer. If a sewer extension permit is required, construction may not begin until plans and specifications have been submitted and a written permit is granted except as allowed in Minn. Stat. 115.07, Subd. 3(b). [Minn. R. 7001.0020, D]
	5.15.60	Operator Certification. [Minn. R. 7001]
	5.15.61	The Permittee shall provide a Class A state certified operator who is in direct responsible charge of the operation, maintenance and testing functions required to ensure compliance with the terms and conditions of this permit. [Minn. R. 9400]
	5.15.62	The Permittee shall provide the appropriate number of operators with a Type IV certification to be responsible for the land application of biosolids or semisolids from commercial or industrial operations. [Minn. R. 7001]
	5.15.63	If the Permittee chooses to meet operator certification requirements through a contractual agreement, the Permittee shall provide a copy of the contract to the MPCA, WQ Submittals Center. The contract shall include the certified operator's

		name, certificate number, company name if appropriate, the period covered by the contract and provisions for renewal; the duties and responsibilities of the certified operator; the duties and responsibilities of the permittee; and provisions for notifying the MPCA 30 days in advance of termination if the contract is terminated prior to the expiration date. [Minn. R. 9400]
	5.15.64	The Permittee shall notify the MPCA within 30 days of a change in operator certification or contract status. [Minn. R. 9400]
		Pretreatment: Undelegated Requirements
	5.16.65	Pretreatment - Definitions. [Minn. R. 7049]
	5.16.66	An "Individual Control Mechanism" is a document, such as an agreement or permit, that imposes limitations or requirements on an individual industrial user of the POTW. [Minn. R. 7049]
	5.16.67	"Significant Industrial User" (SIU) means any industrial user that: a. discharges 25,000 gallons per day or more of process wastewater; b. contributes a load of five (5) % or more of the capacity of the POTW; or c. is designated as significant by the Permittee or the MPCA on the basis that the SIU has a reasonable potential to adversely impact the POTW, or the quality of its effluent or residuals. [Minn. R. 7049]
	5.16.68	Pretreatment - Permittee Responsibility to Control Users. [Minn. R. 7049]
	5.16.69	It is the Permittee's responsibility to regulate the discharge from users of its wastewater treatment facility. The Permittee shall prevent any pass through of pollutants or any inhibition or disruption of the Permittee's facility, its treatment processes, or its sludge processes or disposal that contribute to the violation of the conditions of this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. [Minn. R. 7049]
	5.16.70	The Permittee shall prohibit the discharge of the following to its wastewater treatment facility: a. pollutants which create a fire or explosion hazard, including any discharge with a flash point less than 60 degrees C (140 degrees F); b. pollutants which would cause corrosive structural damage to the POTW, including any waste stream with a pH of less than 5.0; c. solid or viscous pollutants which would obstruct flow; d. heat that would inhibit biological activity, including any discharge that would cause the temperature of the waste stream at the POTW treatment plant headwork's to exceed 40 degrees C (104 degrees F); e. pollutants which produce toxic gases, vapors, or fumes that may endanger the health or safety of workers; or f. any pollutant, including oxygen demanding pollutants such as biochemical oxygen demand, released at a flow rate or pollutant concentration that will cause interference or pass through. [Minn. R. 7049]
	5.16.71	The Permittee shall prohibit new discharges of non-contact cooling waters unless there is no cost effective alternative. Existing discharges of non-contact cooling water to the Permittee's wastewater treatment facility shall be eliminated, where elimination is cost-effective, or where an infiltration/inflow analysis and sewer system evaluation survey indicates the need for such removal. [Minn. R. 7049]
	5.16.72	If the Permittee accepts trucked-in wastes, the Permittee shall evaluate the trucked in wastes prior to acceptance in the same manner as it monitors sewered wastes. The Permittee shall accept trucked-in wastes only at specifically designated points. [Minn. R. 7049]
	5.16.73	Pollutant of concern means a pollutant that is or may be discharged by an industrial user that is, or reasonably should be of concern on the basis that it may cause the

		permittee to violate any permit limits on the release of pollutants. The following pollutants shall be evaluated to determine if they should be pollutants of concern: pollutants limited in this permit, pollutants for which monitoring is required in this permit, pollutants that are likely to cause inhibition of the Permittee's POTW, pollutants which may interfere with sludge disposal, and pollutants for which the Permittee's treatment facility has limited capacity. [Minn. R. 7049]
	5.16.74	Control of Significant Industrial Users. [Minn. R. 7049]
	5.16.75	The Permittee shall impose pretreatment requirements on SIUs which will ensure compliance with all applicable effluent limitations and other requirements set forth in this permit or any federal or state law or regulation limiting the release of pollutants from the POTW. These requirements shall be applied to SIUs by means of an individual control mechanism. [Minn. R. 7049]
	5.16.76	The Permittee shall not knowingly enter into an individual control mechanism with any user that would allow the user to contribute an amount or strength of wastewater that would cause violation of any limitation or requirement in the permit, or any applicable federal, state or local law or regulation. [Minn. R. 7049]
	5.16.77	Monitoring of Significant Industrial Users. [Minn. R. 7049]
	5.16.78	The Permittee shall obtain from SIUs specific information on the quality and quantity of the SIU's discharges to the Permittee's POTW. Except where specifically requested by the Permittee and approved by the MPCA, this information shall be obtained by means of representative monitoring conducted by the Permittee or by the SIU under requirements imposed by the Permittee in the SIU's individual control mechanism. Monitoring performed to comply with this requirement shall include all pollutants for which the SIU is significant and shall be done at a frequency commensurate with the significance of the SIU. [Minn. R. 7049]
	5.16.79	Reporting and Notification. [Minn. R. 7049]
	5.16.80	The Permittee shall submit a pretreatment annual report : Due by 31 days after the end of each calendar year following permit issuance if a SIU discharges to the POTW during a given calendar year. [Minn. R. 7049]
	5.16.81	The Pretreatment Annual Report shall be submitted on forms provided by the agency or shall provide equivalent information. The Permittee shall submit the pre-treatment report to the following address: MPCA Attn: WQ Submittals Center 520 Lafayette Road North St. Paul, Minnesota 55155-4194. [Minn. R. 7049]
	5.16.82	The Permittee shall notify the MPCA in writing of any: a. SIU of the Permittee's POTW which has not been previously disclosed to the MPCA; b. anticipated or actual changes in the volume or quality of discharge by an industrial user that could result in the industrial user becoming an SIU as defined in this chapter; or c. anticipated or actual changes in the volume or quality of discharges by a SIU that would require changes to the SIU's required local limits. This notification shall be submitted within 30 days of identifying the IU as a SIU. Where changes are proposed, they shall be submitted prior to changes being made. [Minn. R. 7049]
	5.16.83	Upon notifying the MPCA of a SIU or change in a SIU discharge as required above, the Permittee shall submit the following information on forms provided by the agency or in a comparable format:

		a. the identity of the SIU and a description of the SIU's operation and process; b. a characterization of the SIU's discharge; c. the required local limits that will be imposed on the SIU; d. a technical justification of the required local limits; and e. a plan for monitoring the SIU which is consistent with monitoring requirements in this chapter. [Minn. R. 7049]
	5.16.84	In addition, the Permittee shall, upon request, submit the following to the MPCA for approval: a. additional information on the SIU, its processes and discharge; b. a copy of the individual control mechanism used to control the SIU; c. the Permittee's legal authority to be used for regulating the SIU; and d. the Permittee's procedures for enforcing the requirements imposed on the SIU. [Minn. R. 7049]
	5.16.85	The permittee shall notify MPCA of any of its industrial users that may be subject to national categorical pretreatment standards. [Minn. R. 7049]
	5.16.86	This permit may be modified in accordance with Minnesota Rules, ch. 7001 to require development of a pretreatment program approvable under the Federal General Pretreatment Regulation (40 CFR 403). [Minn. R. 7049]
		Biosolids: Land Application
	5.17.87	Authorization. [Minn. R. 7041]
	5.17.88	This permit authorizes the Permittee to store and land apply domestic wastewater treatment biosolids in accordance with the provisions in this chapter and Minnesota Rules, ch. 7041. [Minn. R. 7041]
	5.17.89	Permittees who prepare bulk biosolids shall obtain approval of the sites on which bulk biosolids are applied before they are applied unless they are Exceptional Quality Biosolids. Site application procedures are set forth in Minn. R. ch. 7041.0800. [Minn. R. 7041.0800]
	5.17.90	Compliance Responsibility. [Minn. R. 7041]
	5.17.91	The Permittee is responsible for ensuring that the applicable requirements in this chapter and Minn. R. ch. 7041 are met when biosolids are prepared, distributed, or applied to the land. [Minn. R. 7041]
	5.17.92	Notification Requirements. [Minn. R. 7041]
	5.17.93	The Permittee shall provide information needed to comply with the biosolids requirements of Minn. R. ch. 7041 to others who prepare or use the biosolids. [Minn. R. 7041]
	5.17.94	Pollutant Limits. [Minn. R. 7041]
	5.17.95	Biosolids which are applied to the land shall not exceed the ceiling concentrations in Table 1 and shall not be applied so that the cumulative amounts of pollutant in Table 2 are exceeded. Table 1 Ceiling Concentrations (dry weight basis) Parameter in units mg/kg Arsenic 75 Cadmium 85 Copper 4300 Lead 840 Mercury 57 Molybdenum 75 Nickel 420 Selenium 100 Zinc 7500

		Table 2 Cumulative Loading Limits Parameter in units lbs/acre Arsenic 37 Cadmium 35 Copper 1339 Lead 268 Mercury 15 Molybdenum not established* Nickel 375 Selenium 89 Zinc 2500 *The cumulative limit for molybdenum has not been established at the time of permit issuance. [Minn. R. 7041.1100]
	5.17.96	Pathogen and Vector Attraction Reduction. [Minn. R. 7041]
	5.17.97	Biosolids shall be processed, treated, or be incorporated or injected into the soil to meet one of the vector attraction reduction requirements in Minnesota Rules, pt. 7041.1400. [Minn. R. 7041.1400]
	5.17.98	Biosolids shall be processed or treated by one of the alternatives in Minnesota Rules, pt. 7041.1300 to meet the Class A or Class B standards for the reduction of pathogens. When Class B biosolids are applied to the land, the site restrictions in Minnesota Rules, pt. 7041.1300 shall also be met. [Minn. R. 7041.1300]
	5.17.99	The minimum duration between application and harvest, grazing or public access to areas where Class B biosolids have been applied to the land is as follows: a. 14 months for food crops whose harvested parts may touch the soil/biosolids mixture (such as melons, squash, tomatoes, etc.), when biosolids are surface applied, incorporated or injected. b. 20 months or 38 months depending on the application method for food crops whose harvested parts grow in the soil (such as potatoes, carrots, onions, etc.). The 20 month time period is required when biosolids are surface applied or surface applied and incorporated after they have been on the soil surface for at least four (4) months. The 38 month time period is required when the biosolids are injected or surface applied and incorporated within four (4) months of application. c. 30 days for feed crops, other food crops (such as field corn, sweet corn, etc.), hay or fiber crops when biosolids are surface applied, incorporated or injected. d. 30 days for grazing of animals when biosolids are surface applied, incorporated or injected. e. One year where there is a high potential for public contact with the site, (such as a reclamation site located in populated areas, a construction site located in a city, turf farms, plant nurseries, etc.) and 30 days where there is low potential for public contact (such as agricultural land, forest, a reclamation site located in an unpopulated area, etc.) when biosolids are surface applied, incorporated, or injected. [Minn. R. 7041]
	5.17.100	Management Practices. [Minn. R. 7041]
	5.17.101	The management practices for the land application of biosolids are described in detail in Minn. R. ch. 7041.1200 and shall be followed unless specified otherwise in a site approval letter or a permit issued by the MPCA. [Minn. R. 7041.1200]
	5.17.102	Overall management requirements: a. Biosolids shall not be applied to the land if it is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat. b. Biosolids shall not be applied to flooded, frozen or snow covered ground so that the biosolids enter wetlands or other waters of the state.

		c. Biosolids shall be applied at an agronomic rate unless specified otherwise by the MPCA in a permit. d. Biosolids shall not be applied within 33 feet of a wetland or waters of the state unless specified otherwise by the MPCA in a permit. [Minn. R. 7041]
	5.17.103	Monitoring Requirements. [Minn. R. 7041]
	5.17.104	Representative samples of biosolids applied to the land shall be analyzed by methods specified in Minnesota Rule pt. 7041.3200 for the following parameters: arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, Kjeldahl nitrogen, ammonia nitrogen, total solids, volatile solids, phosphorus, potassium and pH. [Minn. R. 7041.3200]
	5.17.105	At a minimum, biosolids shall be monitored at the frequencies specified in Table 3 for the parameters listed above, and any pathogen or vector attraction reduction requirements in Minnesota Rules, pts. 7041.1300 and 7041.1400 if used to determine compliance with those parts. Table 3 Minimum Sampling Frequencies Biosolids Applied* Biosolids Applied* Frequency (metric tons/365-day period) (tons/365-day period) (times/365-day period) >0 but <290 >0 but <320 1 >=290 but <1,500 >=320 but <1,650 4 >=1,500 but <15,000 >=1,650 but <16,500 6 >=15,000 >=16,500 12 * Either the amount of bulk biosolids applied to the land or the amount of biosolids received by a person who prepares biosolids that are sold or given away in a bag or other container for application to the land (dry weight basis). [Minn. R. 7041.1300, Minn. R. 7041.1400]
	5.17.106	Representative samples of biosolids that are transferred to storage units and are stored for more than two years shall be analyzed by methods specified in Minnesota Rule pt. 7041.3200 for each cropping year they are stored for the following parameters: arsenic, cadmium, copper, lead, molybdenum, nickel, selenium, and zinc. Mercury is specifically NOT included in the stored biosolids analysis because of the short holding time [28 days] required between sampling and analysis. [Minn. R. 7041.3200]
	5.17.107	Increased sampling frequencies are specified for the parameters listed in Table 4. Sampling at a frequency at twice the minimum frequencies in Table 3 is required if concentrations listed in Table 4 are exceeded (based on the average of all analyses made during the previous cropping year). Table 4 Increased Frequency of Sampling Parameter (mg/kg dry weight basis) Arsenic 38 Cadmium 43 Copper 2150 Lead 420 Mercury 28 Molybdenum 38 Nickel 210 Selenium 50 Zinc 3750. [Minn. R. 7041]

	5.17.108	Records. [Minn. R. 7041]
	5.17.109	The Permittee shall keep records of the information necessary to show compliance with pollutant concentrations and loadings, pathogen reduction requirements, vector attraction reduction requirements and management practices as specified in Minnesota Rules, pt. 7041.1600, as applicable to the quality of biosolids produced. [Minn. R. 7041.1600]
	5.17.110	Reporting Requirements. [Minn. R. 7041]
	5.17.111	The Permittee shall submit a biosolids annual report : Due annually, by the 31st of December on a form provided by or approved by the MPCA. The report shall include the requirements in Minnesota Rules, part 7041.1700. [Minn. R. 7041.1700]
	5.17.112	The permittee shall submit a Biosolids Annual Report by December 31 of each year for biosolids storage and/or transfer activities occurring during the cropping year previous to December 31. The report shall indicate whether or not biosolids were transferred and/or stored. If biosolids were transferred, the report shall describe how much was transferred, where it was transferred to, the name of the facility that accepted the transfer and the contact person at that facility. "Cropping year" means a year beginning on September 1 of the year prior to the growing season and ending August 31 the year the crop is harvested. For example, the 2012 cropping year began September 1, 2011, and ended August 31, 2012. [Minn. R. 7041]
	5.17.113	For biosolids that are stored for more than two years, the Biosolids Annual Report shall also include the analytical data from the representative sample of the biosolids generated during the cropping year. [Minn. R. 7041]
	5.17.114	The Permittee shall submit the Biosolids Annual Report to: MPCA Submittals Center, Minnesota Pollution Control Agency, 520 Lafayette Road North, St Paul Minnesota 551554194. [Minn. R. 7041]
	5.17.115	The Permittee shall notify the MPCA in writing when 90 percent or more of any of the cumulative pollutant loading rates listed for any Land Application Sites has been reached for a site. [Minn. R. 7041]
		Industrial Stormwater No Exposure Exclusion
	5.18.116	Conditional Exclusion for No Exposure. [Minn. R. 7001]
	5.18.117	No exposure means all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snow melt, and/or runoff. Industrial activities or materials include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. [Minn. R. 7090]
	5.18.118	The conditional exclusion for No Exposure is available on a facility-wide basis in accordance with G158.3060, subp. 5(B). [Minn. R. 7090]
	5.18.119	The no exposure certification is non-transferrable in accordance with G158.3060, subp. 5(D). In the event that the facility operator changes, then the new operator shall submit written notification of the change to the MPCA, Attn: WQ Submittal Center, 520 Lafayette Road North, St Paul, Minnesota 55155-4194. [Minn. R. 7090]
	5.18.120	The MPCA retains the authority to require the facility operator to apply for a permit modification to this permit for stormwater coverage or to apply for coverage under the Industrial Stormwater General Permit (MNR050000), even when an industrial operator certifies No Exposure, if the MPCA has determined that the discharge is contributing to the violation of, or interfering with the attainment or maintenance of water quality standards, including designated uses. [Minn. R. 7090]
	5.18.121	Any facility that has previously obtained a conditional exclusion for No Exposure shall recertify for the exclusion no later than five years from the effective date of the most recent No Exposure certificate issued to the facility by the Agency. Any facility authorized for the conditional exclusion for No Exposure by the Agency shall post the No Exposure Coverage Card in an area of the facility that provides the

		highest visibility to employees and visitors. [Minn. R. 7090]
	5.18.122	The No Exposure exclusion is conditional. The facility shall maintain a condition of No Exposure at the facility in order for the No Exposure exclusion to remain applicable. In the event of any change or circumstance that causes exposure of industrial activities or materials to stormwater, the facility shall comply with the stormwater requirements of this chapter. [Minn. R. 7090]
	5.18.123	Based on the information submitted with the permit application, the Agency has determined the Permittee meets the exclusion criteria for "No Exposure" in accordance with Minnesota Rules Chapter 7090.3060. [Minn. R. 7090]
		Total Facility Requirements (NPDES/SDS)
	5.19.124	Definitions. Refer to the 'Permit Users Manual' found on the MPCA website (www.pca.state.mn.us) for standard definitions. [Minn. R. 7001.]
	5.19.125	Incorporation by Reference. The following applicable federal and state laws are incorporated by reference in this permit, are applicable to the Permittee, and are enforceable parts of this permit: 40 CFR pts. 122.41, 122.42, 136, 403 and 503; Minn. R. pts. 7001, 7041, 7045, 7050, 7052, 7053, 7060, and 7080; and Minn. Stat. ch. 115 and 116. [Minn. R. 7001]
	5.19.126	Permittee Responsibility. The Permittee shall perform the actions or conduct the activity authorized by the permit in compliance with the conditions of the permit and, if required, in accordance with the plans and specifications approved by the Agency. [Minn. R. 7001.0150, subp. 3(E)]
	5.19.127	Toxic Discharges Prohibited. Whether or not this permit includes effluent limitations for toxic pollutants, the Permittee shall not discharge a toxic pollutant except according to Code of Federal Regulations, Title 40, sections 400 to 460 and Minnesota Rules 7050, 7052, 7053 and any other applicable MPCA rules. [Minn. R. 7001.1090, subp. 1(A)]
	5.19.128	Nuisance Conditions Prohibited. The Permittee's discharge shall not cause any nuisance conditions including, but not limited to: floating solids, scum and visible oil film, acutely toxic conditions to aquatic life, or other adverse impact on the receiving water. [Minn. R. 7050.0210, subp. 2]
	5.19.129	Property Rights. This permit does not convey a property right or an exclusive privilege. [Minn. R. 7001.0150, subp. 3(C)]
	5.19.130	Liability Exemption. In issuing this permit, the state and the MPCA assume no responsibility for damage to persons, property, or the environment caused by the activities of the Permittee in the conduct of its actions, including those activities authorized, directed, or undertaken under this permit. To the extent the state and the MPCA may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Tort Claims Act. [Minn. R. 7001.0150, subp. 3(O)]
	5.19.131	The MPCA's issuance of this permit does not obligate the MPCA to enforce local laws, rules, or plans beyond what is authorized by Minnesota Statutes. [Minn. R. 7001.0150, subp. 3(D)]
	5.19.132	Liabilities. The MPCA's issuance of this permit does not release the Permittee from any liability, penalty or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. [Minn. R. 7001.0150, subp. 3(A)]
	5.19.133	The issuance of this permit does not prevent the future adoption by the MPCA of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the Permittee. [Minn. R. 7001.0150, subp. 3(B)]
	5.19.134	Severability. The provisions of this permit are severable and, if any provisions of this permit or the application of any provision of this permit to any circumstance are held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby. [Minn. R. 7001]

	5.19.135	Compliance with Other Rules and Statutes. The Permittee shall comply with all applicable air quality, solid waste, and hazardous waste statutes and rules in the operation and maintenance of the facility. [Minn. R. 7001]
	5.19.136	Inspection and Entry. When authorized by Minn. Stat. ch. 115.04; 115B.17, subd. 4; and 116.091, and upon presentation of proper credentials, the agency, or an authorized employee or agent of the agency, shall be allowed by the Permittee to enter at reasonable times upon the property of the Permittee to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the facility covered by the permit or pertaining to the activity covered by the permit. [Minn. R. 7001.0150, subp. 3(I)]
	5.19.137	Control Users. The Permittee shall regulate the users of its wastewater treatment facility so as to prevent the introduction of pollutants or materials that may result in the inhibition or disruption of the conveyance system, treatment facility or processes, or disposal system that would contribute to the violation of the conditions of this permit or any federal, state or local law or regulation. [Minn. R. 7001.0150, subp. 3(F)]
	5.19.138	Sampling. [Minn. R. 7001]
	5.19.139	Representative Sampling. Samples and measurements required by this permit shall be conducted as specified in this permit and shall be representative of the discharge or monitored activity. [40 CFR 122.41(j)(1)]
	5.19.140	Additional Sampling. If the Permittee monitors more frequently than required, the results and the frequency of monitoring shall be reported on the Discharge Monitoring Report (DMR) or another MPCA-approved form for that reporting period. [Minn. R. 7001.1090, subp. 1(E)]
	5.19.141	Certified Laboratory. A laboratory certified by the Minnesota Department of Health and/or registered by the MPCA shall conduct analyses required by this permit. Analyses of dissolved oxygen, pH, temperature, specific conductance, and total residual oxidants (chlorine, bromine) do not need to be completed by a certified laboratory but shall comply with manufacturers specifications for equipment calibration and use. [Minn. R. 4740.2010, Minn. R. 4740.2050 through 2120]
	5.19.142	Sample Preservation and Procedure. Sample preservation and test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and Minn. R. 7041.3200. [40 CFR 136, Minn. R. 7041.3200]
	5.19.143	Equipment Calibration: Flow meters, pumps, flumes, lift stations or other flow monitoring equipment used for purposes of determining compliance with permit shall be checked and/or calibrated for accuracy at least twice annually. [Minn. R. 7001.0150, 2(B and C)]
	5.19.144	Maintain Records. The Permittee shall keep the records required by this permit for at least three years, including any calculations, original recordings from automatic monitoring instruments, and laboratory sheets. The Permittee shall extend these record retention periods upon request of the MPCA. The Permittee shall maintain records for each sample and measurement. The records shall include the following information: a. the exact place, date, and time of the sample or measurement; b. the date of analysis; c. the name of the person who performed the sample collection, measurement, analysis, or calculation; d. the analytical techniques, procedures and methods used; and e. the results of the analysis. [Minn. R. 7001.0150, 2(C)]
	5.19.145	Completing Reports. The Permittee shall submit the results of the required sampling and monitoring activities on the forms provided, specified, or approved by the MPCA.

		The information shall be recorded in the specified areas on those forms and in the units specified. Required forms may include DMR Supplemental/Sample Value Form Individual values for each sample and measurement shall be recorded on the DMR Supplemental/Sample Value Form which, if required, will be provided by the MPCA. DMR Supplemental/Sample Value Forms shall be submitted with the appropriate DMRs. You may design and use your own supplemental form; however it shall be approved by the MPCA. Note: Required summary information shall also be recorded on the DMR. Summary information that is submitted ONLY on the DMR Supplemental/Sample Value Form does not comply with the reporting requirements. [Minn. R. 7001.1090, 1(D), Minn. R. 7001.150, 2(B)]
	5.19.146	Submitting Reports. DMRs and Supplementals shall be submitted to: MPCA, Attn: Discharge Monitoring Reports, 520 Lafayette Road North, St Paul Minnesota 551554194. DMRs, DMR supplemental forms and related attachments may be electronically submitted via the MPCA Online Services Portal after authorization is approved. When electronically submitted, the paper DMR submittal requirement is waived. DMRs and DMR Supplemental Forms shall be postmarked or electronically submitted by the 21st day of the month following the sampling period or as otherwise specified in this permit. Electronic DMR submittal shall be complete on or before 11:59 PM of the 21st day of the month following the sampling period or as otherwise specified in this permit. A DMR shall be submitted for each required station even if no discharge occurred during the reporting period. Other reports required by this permit shall be postmarked by the date specified in the permit to: MPCA, Attn: WQ Submittals Center, 520 Lafayette Road North, St Paul Minnesota 551554194. [Minn. R. 7001.0150, 2(B), Minn. R. 7001.150, 3(H)]
	5.19.147	Incomplete or Incorrect Reports. The Permittee shall immediately submit an electronically amended report or DMR to the MPCA upon discovery by the Permittee or notification by the MPCA that it has submitted an incomplete or incorrect report or DMR. The amended report or DMR shall contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. If it is impossible to electronically amend the report or DMR, the Permittee shall immediately notify the MPCA and the MPCA will provide direction for the amendment submittals. [Minn. R. 7001.0150, 3(G)]
	5.19.148	Required Signatures. All DMRs, forms, reports, and other documents submitted to the MPCA shall be signed by the Permittee or the duly authorized representative of the Permittee. Minn. R. 7001.0150, subp. 2, item D. The person or persons that sign the DMRs, forms, reports or other documents shall certify that he or she understands and complies with the certification requirements of Minn. R. 7001.0070 and 7001.0540, including the penalties for submitting false information. Technical documents, such as design drawings and specifications and engineering studies required to be submitted as part of a permit application or by permit conditions, shall be certified by a registered professional engineer. [Minn. R. 7001.0540]
	5.19.149	Detection Level. The Permittee shall report monitoring results below the reporting limit (RL) of a particular instrument as "<" the value of the RL. For example, if an instrument has a RL of 0.1 mg/L and a parameter is not detected at a value of 0.1 mg/L or greater, the concentration shall be reported as "<0.1 mg/L." "Non-detected," "undetected," "below detection limit," and "zero" are unacceptable reporting results, and are permit reporting violations.

		Where sample values are less than the level of detection and the permit requires reporting of an average, the Permittee shall calculate the average as follows: a. If one or more values are greater than the level of detection, substitute zero for all nondetectable values to use in the average calculation. b. If all values are below the level of detection, report the averages as "<" the corresponding level of detection. c. Where one or more sample values are less than the level of detection, and the permit requires reporting of a mass, usually expressed as kg/day, the Permittee shall substitute zero for all nondetectable values. [Minn. R. 7001.0150, 2(B)]
	5.19.150	Records. The Permittee shall, when requested by the Agency, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the facility covered by the permit or regarding the conduct of the activity covered by the permit. [Minn. R. 7001.0150, 3(H)]
	5.19.151	Confidential Information. Except for data determined to be confidential according to Minn. Stat. ch. 116.075, subd. 2, all reports required by this permit shall be available for public inspection. Effluent data shall not be considered confidential. To request the Agency maintain data as confidential, the Permittee shall follow Minn. R. 7000.1300. [Minn. R. 7000.1300]
	5.19.152	Noncompliance and Enforcement. [Minn. R. 7001]
	5.19.153	Subject to Enforcement Action and Penalties. Noncompliance with a term or condition of this permit subjects the Permittee to penalties provided by federal and state law set forth in section 309 of the Clean Water Act; United States Code, title 33, section 1319, as amended; and in Minn. Stat. ch. 115.071 and 116.072, including monetary penalties, imprisonment, or both. [Minn. R. 7001.1090, 1(B)]
	5.19.154	Criminal Activity. The Permittee may not knowingly make a false statement, representation, or certification in a record or other document submitted to the Agency. A person who falsifies a report or document submitted to the Agency, or tampers with, or knowingly renders inaccurate a monitoring device or method required to be maintained under this permit is subject to criminal and civil penalties provided by federal and state law. [Minn. R. 7001.0150, 3(G), Minn. R. 7001.1090, 1(G and H), Minn. Stat. ch. 609.671, 1]
	5.19.155	Noncompliance Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 CFR 122.41(c)]
	5.19.156	Effluent Violations. If sampling by the Permittee indicates a violation of any discharge limitation specified in this permit, the Permittee shall immediately make every effort to verify the violation by collecting additional samples, if appropriate, investigate the cause of the violation, and take action to prevent future violations. If the permittee discovers that noncompliance with a condition of the permit has occurred which could endanger human health, public drinking water supplies, or the environment, the Permittee shall within 24 hours of the discovery of the noncompliance, orally notify the commissioner and submit a written description of the noncompliance within 5 days of the discovery. The written description shall include items a. through e., as listed below. If the Permittee discovers other non-compliance that does not explicitly endanger human health, public drinking water supplies, or the environment, the non-compliance shall be reported during the next reporting period to the MPCA with its Discharge Monitoring Report (DMR). If no DMR is required within 30 days, the Permittee shall submit a written report within 30 days of the discovery of the noncompliance. This description shall include the following information: a. a description of the event including volume, duration, monitoring results and receiving waters;

		b. the cause of the event; c. the steps taken to reduce, eliminate and prevent reoccurrence of the event; d. the exact dates and times of the event; and e. steps taken to reduce any adverse impact resulting from the event. [Minn. R. 7001.150, 3(K)]
	5.19.157	Upset Defense. In the event of temporary noncompliance by the Permittee with an applicable effluent limitation resulting from an upset at the Permittee's facility due to factors beyond the control of the Permittee, the Permittee has an affirmative defense to an enforcement action brought by the Agency as a result of the noncompliance if the Permittee demonstrates by a preponderance of competent evidence: a. the specific cause of the upset; b. that the upset was unintentional; c. that the upset resulted from factors beyond the reasonable control of the Permittee and did not result from operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or increases in production which are beyond the design capability of the treatment facilities; d. that at the time of the upset the facility was being properly operated; e. that the Permittee properly notified the Commissioner of the upset in accordance with Minn. R. 7001.1090, subp. 1, item I; and f. that the Permittee implemented the remedial measures required by Minn. R. 7001.0150, subp. 3, item J. [Minn. R. 7001.1090]
	5.19.158	Release. [Minn. R. 7001]
	5.19.159	Unauthorized Releases of Wastewater Prohibited. Except for discharges from outfalls specifically authorized by this permit, overflows, discharges, spills, or other releases of wastewater or materials to the environment, whether intentional or not, are prohibited. However, the MPCA will consider the Permittee's compliance with permit requirements, frequency of release, quantity, type, location, and other relevant factors when determining appropriate action. [40 CFR 122.41, Minn. Stat. ch. 115.061]
	5.19.160	Discovery of a release. Upon discovery of a release, the Permittee shall: a. Take all reasonable steps to immediately end the release. b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon discovery of the release. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area). c. Recover as rapidly and as thoroughly as possible all substances and materials released or immediately take other action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If the released materials or substances cannot be immediately or completely recovered, the Permittee shall contact the MPCA. If directed by the MPCA, the Permittee shall consult with other local, state or federal agencies (such as the Minnesota Department of Natural Resources and/or the Wetland Conservation Act authority) for implementation of additional clean-up or remediation activities in wetland or other sensitive areas. [Minn. R. 7001.1090]
	5.19.161	Sampling of a release. Upon discovery of a release, the Permittee shall: a. Collect representative samples of the release. The Permittee shall sample the release for parameters of concern immediately following discovery of the release. The Permittee may contact the MPCA during business hours to discuss the sampling parameters and protocol. In addition, Fecal Coliform Bacteria samples shall be collected where it is determined by the Permittee that the release contains or may contain sewage. If the release cannot be immediately stopped, the Permittee shall consult with MPCA regarding additional sampling requirements. Samples shall be

		collected at least, but not limited to, two times per week for as long as the release continues. b. Submit the sampling results on the Release Sampling Form (http://www.pca.state.mn.us/index.php/view-document.html?gid=18867). The Release Sampling Form shall be submitted to the MPCA with the next DMR or within 30 days whichever is sooner. [Minn. R. 7001.1090]
	5.19.162	Bypass. [Minn. R. 7001]
	5.19.163	Anticipated bypass. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if the bypass is for essential maintenance to assure efficient operation of the facility. The permittee shall submit prior notice, if possible at least ten days before the date of the bypass to the MPCA. The notice of the need for an anticipated bypass shall include the following information: a. the proposed date and estimated duration of the bypass; b. the alternatives to bypassing; and c. a proposal for effluent sampling during the bypass. Any bypass wastewater shall enter waters of the state from outfalls specifically authorized by this permit. Therefore, samples shall be collected at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. [40 CFR 122.41(m)(2 and 3), Minn. R. 7001.1090, 1(J)]
	5.19.164	All other bypasses are prohibited. The MPCA may take enforcement action against the Permittee for a bypass, unless the specific conditions described in Minn. R. Ch. 7001.1090 subp. 1, K and 122.41(m)(4)(i) are met. In the event of an unanticipated bypass, the permittee shall: a. Take all reasonable steps to immediately end the bypass. b. Notify the Minnesota Department of Public Safety Duty Officer at 1(800)422-0798 or (651)649-5451 (metro area) immediately upon commencement of the bypass. You may contact the MPCA during business hours at 1(800)657-3864 or (651)296-6300 (metro area). c. Immediately take action as may be reasonably possible to minimize or abate pollution to waters of the state or potential impacts to human health caused thereby. If directed by the MPCA, the Permittee shall consult with other local, state or federal agencies for implementation of abatement, clean-up, or remediation activities. d. Only allow bypass wastewater as specified in this section to enter waters of the state from outfalls specifically authorized by this permit. Samples shall be collected at the frequency and location identified in this permit or two times per week for as long as the bypass continues, whichever is more frequent. The permittee shall also follow the reporting requirements for effluent violations as specified in this permit. [40 CFR 122.41(m)(4)(i), Minn. R. 7001.1090, 1(K), Minn. Stat. ch. 115.061]
	5.19.165	Operation and Maintenance. [Minn. R. 7001]
	5.19.166	The Permittee shall at all times properly operate and maintain the facilities and systems of treatment and control, and the appurtenances related to them which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The Permittee shall install and maintain appropriate backup or auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste facility permits, if these backup or auxiliary facilities are technically and economically feasible Minn. R. 7001.0150. subp. 3, item F. [Minn. R.

		7001.0150, 3(F)]
	5.19.167	In the event of a reduction or loss of effective treatment of wastewater at the facility, the Permittee shall control production or curtail its discharges to the extent necessary to maintain compliance with the terms and conditions of this permit. The Permittee shall continue this control or curtailment until the wastewater treatment facility has been restored or until an alternative method of treatment is provided. [Minn. R. 7001.1090, 1(C)]
	5.19.168	Solids Management. The Permittee shall properly store, transport, and dispose of biosolids, septage, sediments, residual solids, filter backwash, screenings, oil, grease, and other substances so that pollutants do not enter surface waters or ground waters of the state. Solids should be disposed of in accordance with local, state and federal requirements. [40 CFR 503, Minn. R. 7041]
	5.19.169	Scheduled Maintenance. The Permittee shall schedule maintenance of the treatment works during non-critical water quality periods to prevent degradation of water quality, except where emergency maintenance is required to prevent a condition that would be detrimental to water quality or human health. [Minn. R. 7001.0150, 3(F), Minn. R. 7001.150, 2(B)]
	5.19.170	Control Tests. In-plant control tests shall be conducted at a frequency adequate to ensure compliance with the conditions of this permit. [Minn. R. 7001.0150, 3(F), Minn. R. 7001.150, 2(B)]
	5.19.171	Changes to the Facility or Permit. [Minn. R. 7001]
	5.19.172	Permit Modifications. Except as provided under Minnesota Statutes, section 115.07, subdivisions 1 and 3, no person required by statute or rule to obtain a permit may construct, install, modify, or operate the facility to be permitted, nor shall a person commence an activity for which a permit is required by statute or rule until the agency has issued a written permit for the facility or activity. Permittees that propose to make a change to the facility or discharge that requires a permit modification shall follow Minn. R. 7001.0190. If the Permittee cannot determine whether a permit modification is needed, the Permittee shall contact the MPCA prior to any action. It is recommended that the application for permit modification be submitted to the MPCA at least 180 days prior to the planned change. [Minn. R. 7001.0030]
	5.19.173	Plans, specifications and MPCA approval are not necessary when maintenance dictates the need for installation of new equipment, provided the equipment is the same design size and has the same design intent. For instance, a broken pipe, lift station pump, aerator, or blower can be replaced with the same design-sized equipment without MPCA approval. If the proposed construction is not expressly authorized by this permit, it may require a permit modification. If the construction project requires an Environmental Assessment Worksheet under Minn. R. 4410, no construction shall begin until a negative declaration is issued and all approvals are received or implemented. [Minn. R. 7001.0030]
	5.19.174	Report Changes. The Permittee shall give advance notice as soon as possible to the MPCA of any substantial changes in operational procedures, activities that may alter the nature or frequency of the discharge, and/or material factors that may affect compliance with the conditions of this permit. [Minn. R. 7001.0150, 3(M)]
	5.19.175	Chemical Additives. The Permittee shall receive prior written approval from the MPCA before increasing the use of a chemical additive authorized by this permit, or using a chemical additive not authorized by this permit, in quantities or concentrations that have the potential to change the characteristics, nature and/or quality of the discharge.

		The Permittee shall request approval for an increased or new use of a chemical additive at least 60 days, or as soon as possible, before the proposed increased or new use. This written request shall include at least the following information for the proposed additive: a. The process for which the additive will be used; b. Safety Data Sheet (SDS) which shall include aquatic toxicity, human health, and environmental fate information for the proposed additive. The aquatic toxicity information shall include at minimum the results of: a) a 48-hour LC50 or EC50 acute study for a North American freshwater planktonic crustacean (either Ceriodaphnia or Daphnia sp.) and b) a 96-hour LC50 acute study for rainbow trout, bluegill or fathead minnow or another North American freshwater aquatic species other than a planktonic crustacean; c. a complete product use and instruction label; d. the commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients in the additive (If the MSDS does not include information on chemical composition, including percentages for each ingredient totaling to 100%, the Permittee shall contact the supplier to have this information provided); and e. The proposed method of application, application frequency, concentration, and daily average and maximum rates of use. Upon review of the information submitted regarding the proposed chemical additive, the MPCA may require additional information be submitted for consideration. This permit may be modified to restrict the use or discharge of a chemical additive and include additional influent and effluent monitoring requirements. Approval for the use of an additive shall not justify the exceedance of any effluent limitation nor shall it be used as a defense against pollutant levels in the discharge causing or contributing to the violation of a water quality standard. [Minn. R. 7001.0170]
	5.19.176	MPCA Initiated Permit Modification, Suspension, or Revocation. The MPCA may modify or revoke and reissue this permit pursuant to Minn. R. 7001.0170. The MPCA may revoke without reissuance this permit pursuant to Minn. R. 7001.0180. [Minn. R. 7001.0170, Minn. R. 7001.0180]
	5.19.177	TMDL Impacts. Facilities that discharge to an impaired surface water, watershed or drainage basin may be required to comply with additional permits or permit requirements, including additional restriction or relaxation of limits and monitoring as authorized by the CWA 303(d)(4)(A) and 40 CFR 122.44.l.2.i., necessary to ensure consistency with the assumptions and requirements of any applicable US EPA approved wasteload allocations resulting from Total Maximum Daily Load (TMDL) studies. [40 CFR 122.44(l)(2)(i)]
	5.19.178	Permit Transfer. The permit is not transferable to any person without the express written approval of the Agency after compliance with the requirements of Minn. R. 7001.0190. A person to whom the permit has been transferred shall comply with the conditions of the permit. [Minn. R. 7001.0150, 3(N)]
	5.19.179	Facility Closure. The Permittee is responsible for closure and post-closure care of the facility. The Permittee shall notify the MPCA of a significant reduction or cessation of the activities described in this permit at least 180 days before the reduction or cessation. The MPCA may require the Permittee to provide to the MPCA a facility Closure Plan for approval. Facility closure that could result in a potential long-term water quality concern, such as the ongoing discharge of wastewater to surface or ground water, may require a permit modification or reissuance. The MPCA may require the Permittee to establish and maintain financial assurance to

		ensure performance of certain obligations under this permit, including closure, post-closure care and remedial action at the facility. If financial assurance is required, the amount and type of financial assurance, and proposed modifications to previously MPCA-approved financial assurance, shall be approved by the MPCA. [Minn. Stat. ch. 116.07, 4]
	5.19.180	Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. If the Permittee does not intend to continue the activities authorized by this permit after the expiration date of this permit, the Permittee shall notify the MPCA in writing at least 180 days before permit expiration. If the Permittee has submitted a timely application for permit reissuance, the Permittee may continue to conduct the activities authorized by this permit, in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following (Minn. R. 7001.0040 and 7001.0160): a. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit; b. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit; c. The Permittee has submitted an application with major deficiencies or has failed to properly supplement the application in a timely manner after being informed of deficiencies. [Minn. R. 7001.0160]

6. Submittal action summary

SD 002	**Effluent To Surface Water**	
		Surface Discharge: Class A Major Facility Effluent Requirements
	6.1.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
		Priority Pollutant Requirements
	6.2.2	The Permittee shall submit the first priority pollutant monitoring report : Due 1095 calendar days before Permit Expiration Date, 1095 days = 3 years. [Minn. R. 7001]
	6.2.3	The Permittee shall submit the second priority pollutant monitoring report : Due 730 calendar days before Permit Expiration Date, 730 days = 2 years. [Minn. R. 7001]
	6.2.4	The Permittee shall submit the third priority pollutant monitoring report : Due 365 calendar days before Permit Expiration Date, 365 days = 1 year. [Minn. R. 7001]
		Chronic Toxicity Requirements
	6.3.5	The Permittee shall submit annual chronic toxicity test battery results, the first test is due 6 months after permit issuance and annually thereafter. submit annual chronic toxicity test battery results : Due 180 calendar days after Permit Issuance Date annually. [Minn. R. 7001]
SW 002	**Stream/River/Ditch, Downstream**	
		Surface Water Requirements
	6.4.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
SW 003	**Stream/River/Ditch, Downstream**	
		Surface Water Requirements
	6.5.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
WS 001	**Influent Waste**	
		Waste Stream: Class A Major Facility Influent Requirements

	6.6.1	The Permittee shall submit a monthly DMR : Due by 21 days after the end of each calendar month following permit issuance. [Minn. R. 7001.0150, Subp. 2(B)]
MN0051250	**Delano WWTP**	
		Compliance Construction Schedule
	6.7.1	The Permittee shall submit a 2016 Pilot Study Plan for MPCA review by May 23, 2016. submit a plan : Due 05/23/2016. [Minn. R. 7001]
	6.7.2	The Permittee shall submit results of the 2016 Pilot Study for MPCA review by December 31, 2016. submit report : Due 12/31/2016. [Minn. R. 7001]
	6.7.3	The Permittee shall submit an updated 2017 Pilot Study Plan for MPCA review by May 30, 2017. submit an updated plan : Due 05/30/2017. [Minn. R. 7001]
	6.7.4	The Permittee shall submit results of the 2017 Pilot Study for MPCA review by December 31, 2017. submit report : Due 12/31/2017. [Minn. R. 7001]
	6.7.5	The Permittee shall submit a facility plan for MPCA review by March 1, 2018. submit a facility plan : Due 03/31/2018. [Minn. R. 7001]
	6.7.6	The Permittee shall submit plans and specifications regarding needed facility modifications for MPCA review and approval by March 1, 2019. submit plans and specifications : Due 03/01/2019. [Minn. R. 7001]
	6.7.7	The Permittee shall submit a copy of the Notice to Proceed by December 31, 2019. submit notice to proceed : Due 12/31/2019. [Minn. R. 7001]
	6.7.8	The Permittee shall submit a notice of completion of construction by December 31, 2020. submit notice of completion of construction : Due 12/31/2020. [Minn. R. 7001]
	6.7.9	The Permittee shall initiate operation of the upgraded facility by March 31, 2021. initiate operation : Due 03/31/2021. [Minn. R. 7001]
		Mercury Minimization Plan
	6.8.10	The Permittee shall submit a mercury pollutant minimization plan : Due by two years after permit issuance. [Minn. R. 7001]
		Pretreatment: Undelegated Requirements
	6.9.11	The Permittee shall submit a pretreatment annual report : Due by 31 days after the end of each calendar year following permit issuance if a SIU discharges to the POTW during a given calendar year. [Minn. R. 7049]
		Biosolids: Land Application

	6.10.12	The Permittee shall submit a biosolids annual report : Due annually, by the 31st of December on a form provided by or approved by the MPCA. The report shall include the requirements in Minnesota Rules, part 7041.1700. [Minn. R. 7041.1700]
		Total Facility Requirements (NPDES/SDS)
	6.11.13	Permit Reissuance. If the Permittee desires to continue permit coverage beyond the date of permit expiration, the Permittee shall submit an application for permit reissuance : Due by 180 days prior to permit expiration. If the Permittee does not intend to continue the activities authorized by this permit after the expiration date of this permit, the Permittee shall notify the MPCA in writing at least 180 days before permit expiration. If the Permittee has submitted a timely application for permit reissuance, the Permittee may continue to conduct the activities authorized by this permit, in compliance with the requirements of this permit, until the MPCA takes final action on the application, unless the MPCA determines any of the following (Minn. R. 7001.0040 and 7001.0160): a. The Permittee is not in substantial compliance with the requirements of this permit, or with a stipulation agreement or compliance schedule designed to bring the Permittee into compliance with this permit; b. The MPCA, as a result of an action or failure to act by the Permittee, has been unable to take final action on the application on or before the expiration date of the permit; c. The Permittee has submitted an application with major deficiencies or has failed to properly supplement the application in a timely manner after being informed of deficiencies. [Minn. R. 7001.0160]

7. Limits and monitoring

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
SD 002 001 Total Facility Discharge	Bicarbonates (HCO3)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C)	124.7 calendar month average tertiary	208.1 maximum calendar week average tertiary	kilograms per day		15 calendar month average tertiary	25 maximum calendar week average tertiary	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C)	208.1 calendar month average secondary	332.9 maximum calendar week average secondary	kilograms per day		25 calendar month average secondary	40 maximum calendar week average secondary	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	BOD, Carbonaceous 05 Day (20 Deg C) Percent Removal				85 minimum calendar month average			percent	3 times per week	Calculation	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Calcium, Total (as Ca)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Chloride, Total						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Copper, Total (as Cu)					Monitor only. calendar quarter average	Monitor only. daily maximum	micrograms per liter	once per quarter	Grab	Mar, Jun, Sep, Dec	
SD 002 001 Total Facility Discharge	Fecal Coliform, MPN or Membrane Filter 44.5C					200 calendar month geometric mean		organisms per 100 milliliter	3 times per week	Grab	Apr-Oct	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
SD 002 001 Total Facility Discharge	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. calendar month maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Hardness, Calcium & Magnesium, Calculated (as CaCO3)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Magnesium, Total (as Mg)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Mercury, Dissolved (as Hg)						Monitor only. calendar month maximum	nanograms per liter	once per month	Grab	May, Sep	
SD 002 001 Total Facility Discharge	Mercury, Total (as Hg)						Monitor only. calendar month maximum	nanograms per liter	once per month	Grab	May, Sep	
SD 002 001 Total Facility Discharge	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)	9.2 calendar month average tertiary		kilograms per day		1.1 calendar month average tertiary		milligrams per liter	3 times per week	24-Hour Flow Composite	Jun-Sep	
SD 002 001 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)	208 calendar month average secondary		kilograms per day		25 calendar month average secondary		milligrams per liter	3 times per week	24-Hour Flow Composite	Oct-Nov	
SD 002 001 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)	64.8 calendar month average secondary		kilograms per day		7.8 calendar month average secondary		milligrams per liter	3 times per week	24-Hour Flow Composite	Jun-Sep	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
SD 002 001 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)	41.6 calendar month average		kilograms per day		5 calendar month average		milligrams per liter	3 times per week	24-Hour Flow Composite	Dec-Mar	
SD 002 001 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)	43.2 calendar month average tertiary		kilograms per day		5.2 calendar month average tertiary		milligrams per liter	3 times per week	24-Hour Flow Composite	Oct-Nov	
SD 002 001 Total Facility Discharge	Nitrogen, Ammonia, Total (as N)	182.9 calendar month average		kilograms per day		22 calendar month average		milligrams per liter	3 times per week	24-Hour Flow Composite	Apr-May	
SD 002 001 Total Facility Discharge	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Oxygen, Dissolved				Monitor only. calendar month minimum secondary			milligrams per liter	once per day	Grab	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Oxygen, Dissolved				6.0 calendar month minimum tertiary			milligrams per liter	once per day	Grab	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	pH				6.0 calendar month minimum		9.0 calendar month maximum	standard units	once per day	Grab	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge Phase 1	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day		Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge Phase 2	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day		Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Oct-May	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
SD 002 001 Total Facility Discharge Phase 2	Phosphorus, Total (as P)	Monitor only. calendar month average		kilograms per day		0.53 calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jun-Sep	
SD 002 001 Total Facility Discharge	Phosphorus, Total (as P)		2430.4 12-month moving total	kilograms per year		1.0 12-month moving average		milligrams per liter	once per month	Calculation	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Potassium, Total (as K)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Sodium, Total (as Na)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Solids, Total Dissolved (TDS)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Solids, Total Suspended (TSS)	249.4 calendar month average	374 maximum calendar week average	kilograms per day		30 calendar month average	45 maximum calendar week average	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Solids, Total Suspended (TSS) Percent Removal				85 minimum calendar month average			percent	3 times per week	Calculation	Jan-Dec (Sep-Aug) (Oct-Sep)	
SD 002 001 Total Facility Discharge	Solids, Total Suspended (TSS), grab (Mercury)						Monitor only. calendar month maximum	milligrams per liter	once per month	Grab	May, Sep	
SD 002 001 Total Facility Discharge	Specific Conductance						Monitor only. calendar month maximum	micromhos per cm	once per month	Measurement	Jan-Dec (Sep-Aug) (Oct-Sep)	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
SD 002 001 Total Facility Discharge	Sulfate, Total (as SO4)						Monitor only. calendar month maximum	milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
SW 002 Crow River USGS gaging station #05280000	Flow, Stream, Instantaneous				Monitor only. calendar month minimum	Monitor only. calendar month average	Monitor only. calendar month maximum	cubic feet per second	once per week	Estimate, Instantaneous	Jan-Dec (Sep-Aug) (Oct-Sep)	
SW 003 Mn Highway 101 Bridge	Nitrogen, Ammonia, Total (as N)						Monitor only. calendar month maximum	milligrams per liter	twice per month	Grab	Dec-Mar	
SW 003 Mn Highway 101 Bridge	Nitrogen, Ammonia, Un-ionized (as N)						Monitor only. calendar month maximum	milligrams per liter	twice per month	Grab	Dec-Mar	
SW 003 Mn Highway 101 Bridge	Oxygen, Dissolved				Monitor only. calendar month minimum			milligrams per liter	twice per month	Grab	Dec-Mar	
SW 003 Mn Highway 101 Bridge	pH, Field						Monitor only. calendar month maximum	standard units	twice per month	Grab	Dec-Mar	
SW 003 Mn Highway 101 Bridge	Temperature, Water (C)						Monitor only. calendar month maximum	degrees Celsius	twice per month	Grab	Dec-Mar	
WS 001 Influent waste stream	BOD, Carbonaceous 05 Day (20 Deg C)					Monitor only. calendar month average	Monitor only. calendar month maximum	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	Flow		Monitor only. calendar month total	million gallons		Monitor only. calendar month average	Monitor only. calendar month maximum	million gallons per day	once per day	Measurement, Continuous	Jan-Dec (Sep-Aug) (Oct-Sep)	

		Discharge limitations							Monitoring requirements			
Subject item	**Parameter**	**Quantity /Loading avg.**	**Quantity /Loading max.**	**Quantity /Loading units**	**Quality /Conc. min.**	**Quality /Conc. avg.**	**Quality /Conc. max.**	**Quality/ Conc. units**	**Frequency**	**Sample type**	**Effective period**	**Notes**
WS 001 Influent waste stream	Nitrite Plus Nitrate, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	Nitrogen, Kjeldahl, Total					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	Nitrogen, Total (as N)					Monitor only. calendar month average		milligrams per liter	once per month	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	pH				Monitor only. calendar month minimum		Monitor only. calendar month maximum	standard units	once per day	Grab	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	Phosphorus, Total (as P)					Monitor only. calendar month average		milligrams per liter	once per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	Precipitation		Monitor only. calendar month total	inches					once per day	Measurement	Jan-Dec (Sep-Aug) (Oct-Sep)	
WS 001 Influent waste stream	Solids, Total Suspended (TSS)					Monitor only. calendar month average	Monitor only. calendar month maximum	milligrams per liter	3 times per week	24-Hour Flow Composite	Jan-Dec (Sep-Aug) (Oct-Sep)	